

Launch Mission Execution Forecast

Mission: Falcon 9 GPS III-4

Issued: 1 Nov 20 / 0900L (1400Z)

Valid: 4 Nov 20 /1828 – 1844L (2328 – 2344Z)



Forecast Discussion: Partly cloudy skies will continue as a strong cold front moves through late tonight. Monday will bring blustery winds from the north, dropping off after sunset. On Tuesday, the strong high pressure over the northern Gulf States will move east into the Carolinas, making winds lighter and turning them easterly. On Wednesday, the tropical storm in the Caribbean will assist in tightening the pressure gradient, increasing the winds. This continued onshore flow will also bring an increase coastal stratocumulus clouds and the potential for a few embedded cumulus. The primary weather concerns for Wednesday evening are Liftoff Winds and the Cumulus Cloud Rule.

On Thursday, similar conditions are expected with gusty, onshore winds bringing increasing cloudiness over the Spaceport. The primary weather concerns remain Liftoff Winds and the Cumulus Cloud Rule.

	Probability of Violating Weather Constraints										
Day	30%	Prima	ary Concerns: Liftof	f Winds, Cumu	ılus Cloud	Rule					
nunch	Weather Conditions							Additional Risk Criteria			
aun	Weather/Visi	bility:	None / 7 mi.	Туре	Clouds Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low		
Ĭ	Temp/Humid	ity:	75°F / 72%	Cumulus	Few	2,500	10,000	Booster Recovery Weather:	Low		
	Liftoff Winds	(200'):	080° 25 - 30 mph	Stratocumulus	Broken	3,000	6,000	Solar Activity:	Low		
	Probability of Violating Weather Constraints										
Delay	40% Primary Concerns: Liftoff Winds, Cumulus Cloud Rule										
e		FIIII	ary Concerns: LITTO	i vviilas, Carric	0.044	Nuie					
	1070	Pilli	•	Conditions		Truie		Additional Risk Cr	iteria		
	Weather/Visi		•	·			Tops (ft)	Additional Risk Cr Upper-Level Wind Shear:	iteria Low		
24-Hour De		bility:	Weather	Conditions	Clouds	3	Tops (ft) 12,000		_		

Note: The Probability of Violation (POV) is the chance that a Lightning Launch Commit Criteria (LLCC) or certain user constraints (surface winds, precipitation, and temperatures, etc.) will be violated during the launch window. It does not take into account upper-level wind shear, booster recovery weather, and solar activity.

Next Forecast Will Be Issued | 2 Nov 2020